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Lerner, David, Littenberg, Krumholz & Mentlik, LLP 600 South Ave West			CHOWDHURY, SUMAIYA A	
Westfield, NJ 07090			ART UNIT	PAPER NUMBER
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Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)
	10/081,437	OISHI, KATSUMI
Office Action Summary	Examiner	Art Unit
	SUMAIYA A. CHOWDHURY	2421
The MAILING DATE of this communication ap Period for Reply	ppears on the cover sheet with th	ne correspondence address
A SHORTENED STATUTORY PERIOD FOR REP WHICHEVER IS LONGER, FROM THE MAILING I - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory perior - Failure to reply within the set or extended period for reply will, by statu. Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICAT I.136(a). In no event, however, may a reply be d will apply and will expire SIX (6) MONTHS fute, cause the application to become ABANDO	ION. e timely filed from the mailing date of this communication. DNED (35 U.S.C. § 133).
Status		
 1) Responsive to communication(s) filed on 13 2a) This action is FINAL. 2b) Th 3) Since this application is in condition for allow closed in accordance with the practice under 	is action is non-final. ance except for formal matters,	
Disposition of Claims		
4) ☐ Claim(s) 1-16 is/are pending in the application 4a) Of the above claim(s) is/are withdr 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-16 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and an are subject.	awn from consideration.	
Application Papers		
9) The specification is objected to by the Examir 10) The drawing(s) filed on is/are: a) according a continuous Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examiration is objected to be a continuous in the Examiration is objected to be a continuous in the Examiration is objected to be a continuous in the Examiration is objected to be a continuous in the Examiration is objected to be a continuous in the Examiration is objected to be a continuous in the Examiration i	ecepted or b) objected to by the drawing(s) be held in abeyance. ection is required if the drawing(s) is	See 37 CFR 1.85(a). objected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
a) All b) Some * c) None of: 1. Certified copies of the priority documer 2. Certified copies of the priority documer 3. Copies of the certified copies of the pri application from the International Bure * See the attached detailed Office action for a list	nts have been received. nts have been received in Applic iority documents have been rece au (PCT Rule 17.2(a)).	cation No eived in this National Stage
Attachment(s) 1) Notice of References Cited (PTO-892)	4) Interview Summ	
Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	Paper No(s)/Ma 5) Notice of Inform 6) Other: <i>Foreign F</i>	al Patent Application

Application/Control Number: 10/081,437 Page 2

Art Unit: 2421

DETAILED ACTION

Response to Arguments

 Applicant's arguments with respect to claims 1-16 have been considered but are moot in view of the new ground(s) of rejection.

(a) Applicant argues that Kubota (6970564) is disqualified from being relied on as prior art because it qualifies as a 35 U.S.C. 103(c) reference.

With this Office Action, the Examiner has attached the Kubota (PCT/JP98/03127) reference and the English language equivalent (EP 1022900). The priority date of the present application is February 21, 2001. The Kubota (6970564) reference was filed on June 7, 2000 and is a divisional of application 09/370,776 filed August 9, 1999, which is a continuation of PCT Application No. PCT/JP98/03127 which was published on January 20, 2000. Since PCT/JP98/03127 was published more than a year before Applicant's priority date, and since the PCT application discloses the same relied on subject matter as the Kubota (6970564) reference, the Kubota reference is not prior art under 35 U.S.C. 102(e) as Applicant indicates. The Kubota reference is prior art under 35 U.S.C 102(b), and as such cannot be disqualified under 35 U.S.C. 103(c).

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Art Unit: 2421

 Claims 1-16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hendricks (5659350) in view of Tsukakoshi (5086426), Okimoto (2002/0051539), Tamer (5619501), Roop (5619274), and Kubota (PCT/JP98/03127)*.

*Note: In the present Office Action, the English language equivalent (EP 1022900) for the Kubota reference is cited.

As for claims 1, 5, and 6, Hendricks teaches a transmission device (cable headend 208), comprising:

a receiving unit (satellite receiver dish) operable to receive a digital signal distributed from a prescribed distribution device (operations center 202) – col. 6, lines 3-18, col. 8, lines 58-62;

a first generating unit operable to set identification information corresponding to a reception device (set top terminals 220) and reception control information for controlling the reception operation of the reception device in an area secured in advance in a format of composite information, thereby generating composite information; and a second generating unit operable to compose a predetermined number of digital signals on the basis of the composite information to generate redistribution digital signals containing the composite information (The cable head receives a multiplexed (composite) digital signal from the operations center. The cable headend prepares the control and programming signals for transmission to each set top terminal 220. The headend sends the control and programming signals to the set top terminals in the

geographic area it is located. Based on the address set by the headend, the signal is routed to the corresponding set top terminal in its area. — col. 9, lines 18-28);

a transmitter (transmitter in headend) operable to transmit the redistribution digital signals to the reception device, and wherein the redistribution digital signals are formed on the basis of the received digital signal – col. 9, lines 18-28, col. 10, lines 45-46; and

wherein the packets of the redistribution signal have the same format of the received signal (Hendricks teaches that both the incoming and outgoing stream are MPEG streams, hence both streams have the same format. Col. 6, lines 44-54).

However, Hendricks fails to teach:

The received digital signal is made up of packets, the packets include a predefined area in which data can be written, and the formation of the redistribution signals includes writing information identifying the reception device in the predefined area and writing reception control information for the reception device in the predefined area, the writing of information identifying the reception device and the writing of reception control information for the reception device being performed on a frame-by-frame basis;

the redistribution signal is formed based on the packets of the received signal and frame transport packets which are not part of the received signal, the frame transport packets including an area in which data can be written;

the reception control information written in the frame transport packet corresponds to the transport packets associated with the frame transport packets; and

the composite information including (i) a version number of the composite information having a value that is incremented each time the composite information is renewed and (ii) a version number of the reception control information having a value that is incremented each time the reception control information is renewed;

In an analogous art, Tsukakoshi teaches

The received digital signal is made up of packets, the packets include a predefined area in which data can be written, and the formation of the redistribution signals includes writing information (destination address field 13) identifying the reception device in the predefined area (terminal 7C) and writing reception control information (control code field) for the reception device in the predefined area, the writing of information identifying the reception device and the writing of reception control information for the reception device being performed on a frame-by-frame basis (col. 6, lines 35-44; Fig. 7A).

It would have been obvious to one of ordinary skill in the art at the time of applicant's invention to modify Hendricks's invention to include the above mentioned limitation, as taught by Tsukakoshi, for the advantage of h providing an effective method in which only authorized devices will receive the stream.

However, Hendricks and Tsukakoshi fail to teach:

the redistribution signal is formed based on the packets of the received signal and frame transport packets which are not part of the received signal, the frame transport packets including an area in which data can be written;

the reception control information written in the frame transport packet corresponds to the transport packets associated with the frame transport packets; and

the composite information including (i) a version number of the composite information having a value that is incremented each time the composite information is renewed and (ii) a version number of the reception control information having a value that is incremented each time the reception control information is renewed;

In an analogous art, Okimoto discloses the redistribution signal is formed based on the packets of the received signal and frame transport packets which are not part of the received signal, the frame transport packets including an area in which data can be written (entitlement control message; [0043], [0062], [0072], [0073]; provisional application: 60/263,087: p. 2, line 12-p. 6, line 14-28, p. 7, lines 3-11, p. 9, line 19-p. 10, line 27, p. 11, lines 4-15, p. 11, line 32-p. 12, line 5);

It would have been obvious to one of ordinary skill in the art at the time of applicant's invention to modify Hendricks and Tsukakoshi's invention to include the above-mentioned limitation, as taught by Okimoto, for the advantage of ensuring that only authorized receivers receive the updated correct content.

However, Hendricks, Tsukakoshi, and Okimoto fail to disclose:

the composite information including (i) a version number of the composite information having a value that is incremented each time the composite information is renewed and (ii) a version number of the reception control information having a value that is incremented each time the reception control information is renewed;

In an analogous art, Tamer discloses the composite information includes a version number of the reception control information. In particular, Tamer discloses entitlement management messages EMM and the corresponding decryption keys are regularly transmitted. The EMM changes over time necessitating decryption keys to be regularly transmitted for the updated version (col. 4, lines 45-col. 5, line 3).

It would have been obvious to one of ordinary skill in the art at the time of applicant's invention to modify Hendricks, Tsukakoshi, and Okimoto's invention to include the abovementioned limitation, as taught by Tamer, for the advantage of allowing the subscriber equipment to determine program material to which the subscriber is entitled.

However, Hendricks, Tsukakoshi, Okimoto, and Tamer fail to disclose:

the composite information including a version number of the composite information having a value that is incremented each time the composite information is renewed and wherein the version number of the reception control information is incremented each time the reception control information is renewed.

In an analogous art, Roop discloses the composite information including (i) a version number of the composite information. In particular, Roop discloses a conditional access system which involves three levels of encryption. Program guides are encrypted with a DES key shared by all authorized units, which is called the program key. The program keys changed periodically are distributed (col. 12, lines 53-61).

It would have been obvious to one of ordinary skill in the art at the time of applicant's invention to modify Hendricks, Tsukakoshi, Okimoto, and Tamer's invention

Application/Control Number: 10/081,437

Art Unit: 2421

to include the abovementioned limitation, as taught by Roop, for the advantage of ensuring that only authorized equipment can decrypt the data.

However, Hendricks, Tsukakoshi, Okimoto, Tamer, and Roop fail to disclose wherein the version number of both the composite information and the reception control information is incremented each time the respective information is renewed.

In an analogous art, Kubota discloses wherein the version number of both the composite information and the reception control information is incremented each time the respective information is renewed ([0143], [0148]).

It would have been obvious to one of ordinary skill in the art at the time of applicant's invention to modify Hendricks, Tsukakoshi, Okimoto, Tamer, and Roop's invention to include the abovementioned limitation, as taught by Kubota, such that the decoder at the receiver end references the latest version number currently valid.

As for claim 2, Hendricks teaches wherein the reception control information is set to control the reception operation for every digital signal for redistribution in the reception device (Each time the headend receives a digital broadcast signal, it distributes it to the plural set top terminals - col. 9, lines 18-28, col. 10, lines 45-46).

As for claims 3 and 9, Hendricks teaches wherein the first generating unit generates the composite information every time a digital signal for redistribution is received by the reception device or so that the composite information is achieved by the

reception device when the composite information is renewed (Each time the headend receives a digital broadcast signal with the programming and control information, it generates multiple streams to be distributed to the plural set top terminals—col. 9, lines 18-28, col. 10, lines 45-46).

As for claims 4 and 10, Roop teaches wherein the renewal of the composite information is recognized on the basis of version information of the composite information (col. 12, lines 53-61).

Claim 7 includes the limitations of claim 1 and is analyzed as previously discussed with respect to claim 1. Claim 7 additionally calls for the following:

a processor (209 – fig. 3) for executing instructions; and instructions, the instructions including the steps to perform the method as recited in claim 1 (col. 9, lines 18-28).

As for claims 8, 12, and 13, Hendricks teaches a reception device, comprising: a storage unit (set top terminal) operable to store identification information corresponding to the reception device – col. 9, lines 18-28;

a receiver (set top terminal) operable to receive a redistribution digital signal containing composite information transmitted from a transmission device (headend) – col. 9, lines 18-28, col. 10, lines 45-46;

Art Unit: 2421

an achieving unit operable to achieve reception control information corresponding to the identification information stored in the storage unit from an area secured in advance in a format of the composite information – col. 6, lines 3-18, col. 8, lines 58-62, col. 9, lines 18-28;

an extracting unit operable to extract a desired digital signal from the redistribution digital signal by using the composite information—col. 6, lines 3-18, col. 8, lines 58-62, col. 9, lines 18-28; and

a processor operable to process the desired digital signal on the basis of the reception control information - col. 9, lines 18-28.

wherein the packets of the redistribution signal have the same format of the received signal (Hendricks teaches that both the incoming and outgoing stream are MPEG streams, hence both streams have the same format. Col. 6, lines 44-54).

However, Hendricks fails to teach:

The received digital signal is made up of packets, the packets include a predefined area in which data can be written, and the formation of the redistribution signals includes writing information identifying the reception device in the predefined area and writing reception control information for the reception device in the predefined area, the writing of information identifying the reception device and the writing of reception control information for the reception device being performed on a frame-by-frame basis.

the redistribution signal is formed based on the packets of the received signal and frame transport packets which are not part of the received signal, the frame transport packets including an area in which data can be written;

the reception control information written in the frame transport packet corresponds to the transport packets associated with the frame transport packets.

the composite information including (i) a version number of the composite information having a value that is incremented each time the composite information is renewed and (ii) a version number of the reception control information having a value that is incremented each time the reception control information is renewed;

In an analogous art, Tsukakoshi teaches

The received digital signal is made up of packets, the packets include a predefined area in which data can be written, and the formation of the redistribution signals includes writing information (destination address field 13) identifying the reception device in the predefined area (terminal 7C) and writing reception control information (control code field) for the reception device in the predefined area, the writing of information identifying the reception device and the writing of reception control information for the reception device being performed on a frame-by-frame basis (col. 6, lines 35-44; Fig. 7A).

It would have been obvious to one of ordinary skill in the art at the time of applicant's invention to modify Hendricks's invention to include the above mentioned limitation, as taught by Tsukakoshi, for the advantage of h providing an effective method in which only authorized devices will receive the stream.

However, Hendricks and Tsukakoshi fail to teach:

the redistribution signal is formed based on the packets of the received signal and frame transport packets which are not part of the received signal, the frame transport packets including an area in which data can be written;

the reception control information written in the frame transport packet corresponds to the transport packets associated with the frame transport packets; and

the composite information including (i) a version number of the composite information having a value that is incremented each time the composite information is renewed and (ii) a version number of the reception control information having a value that is incremented each time the reception control information is renewed;

In an analogous art, Okimoto discloses the redistribution signal is formed based on the packets of the received signal and frame transport packets which are not part of the received signal, the frame transport packets including an area in which data can be written (entitlement control message; [0043], [0062], [0072], [0073]);

It would have been obvious to one of ordinary skill in the art at the time of applicant's invention to modify Hendricks and Tsukakoshi's invention to include the above-mentioned limitation, as taught by Okimoto, for the advantage of ensuring that only authorized receivers receive the updated correct content.

However, Hendricks, Tsukakoshi, and Okimoto fail to disclose:

the composite information including (i) a version number of the composite information having a value that is incremented each time the composite information is

renewed and (ii) a version number of the reception control information having a value that is incremented each time the reception control information is renewed;

In an analogous art, Tamer discloses the composite information includes a version number of the reception control information. In particular, Tamer discloses entitlement management messages EMM and the corresponding decryption keys are regularly transmitted. The EMM changes over time necessitating decryption keys to be regularly transmitted for the updated version (col. 4, lines 45-col. 5, line 3).

It would have been obvious to one of ordinary skill in the art at the time of applicant's invention to modify Hendricks, Tsukakoshi, and Okimoto's invention to include the abovementioned limitation, as taught by Tamer, for the advantage of allowing the subscriber equipment to determine program material to which the subscriber is entitled.

However, Hendricks, Tsukakoshi, Okimoto, and Tamer fail to disclose:

the composite information including a version number of the composite information having a value that is incremented each time the composite information is renewed and wherein the version number of the reception control information is incremented each time the reception control information is renewed.

In an analogous art, Roop discloses the composite information including (i) a version number of the composite information. In particular, Roop discloses a conditional access system which involves three levels of encryption. Program guides are encrypted with a DES key shared by all authorized units, which is called the program key. The program keys changed periodically are distributed (col. 12, lines 53-61).

It would have been obvious to one of ordinary skill in the art at the time of applicant's invention to modify Hendricks, Tsukakoshi, Okimoto, and Tamer's invention to include the abovementioned limitation, as taught by Roop, for the advantage of ensuring that only authorized equipment can decrypt the data.

However, Hendricks, Tsukakoshi, Okimoto, Tamer, and Roop fail to disclose wherein the version number of both the composite information and the reception control information is incremented each time the respective information is renewed.

In an analogous art, Kubota discloses wherein the version number of both the composite information and the reception control information is incremented each time the respective information is renewed (col. 21, lines 57-61, col. 22, lines 53-57).

It would have been obvious to one of ordinary skill in the art at the time of applicant's invention to modify Hendricks, Tsukakoshi, Okimoto, Tamer, and Roop's invention to include the abovementioned limitation, as taught by Kubota, such that the decoder at the receiver end references the latest version number currently valid.

As for claim 11, Hendricks teaches wherein the achieving unit achieves the reception control information separately from the reception of the redistribution digital signal in the receiver (Hendricks teaches first the control signals are received to generate menu templates – col. 11, lines 5-15. The user selects which program to view from the menu, causing the transmission of the programming to the user – col. 11, lines 33-40).

Art Unit: 2421

Claim 14 contains the limitations of claims 7 and 8 and is analyzed as previously discussed with respect to those claims.

As for claims 15 and 16, Tamer teaches wherein the renewal of the composite information is recognized on the basis of version information of the reception control information (col. 4, lines 45-col. 5, line 3).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to SUMAIYA A. CHOWDHURY whose telephone number is (571)272-8567. The examiner can normally be reached on Mon-Fri, 9-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kristine Kincaid can be reached on (571) 272-4063. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/081,437 Page 16

Art Unit: 2421

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/S. A. C./ Examiner, Art Unit 2421

/Hunter B. Lonsberry/

Primary Examiner, Art Unit 2421